

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2005/019699

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F01D21/02 F02C9/28 F02C9/46		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 F01D F02C		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 045 955 A (BRANNSTROM ET AL) 6 September 1977 (1977-09-06) column 1, line 14 - column 3, line 39; figure 1	12
X	DE 17 51 821 A1 (LICENTIA PATENT-VERWALTUNGS-GMBH; LICENTIA PATENT-VERWALTUNGS-GMBH, 60) 19 May 1971 (1971-05-19) page 2, line 7 - page 2, line 19	12
X	US 4 454 754 A (ZAGRANSKI ET AL) 19 June 1984 (1984-06-19)	12
A	column 1, line 55 - column 3, line 10; figure 1 <div style="text-align: center; margin-top: 10px;">-/-</div>	4-6, 9, 11, 17-20
<div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex. </div>		
* Special categories of cited documents :		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>* & * document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search <div style="text-align: center; font-weight: bold; margin-top: 10px;">23 September 2005</div>		Date of mailing of the international search report <div style="text-align: center; font-weight: bold; margin-top: 10px;">30/09/2005</div>
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer <div style="text-align: center; font-weight: bold; margin-top: 10px;">Rau, G</div>

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 087 978 A (ROLLS ROYCE LTD) 3 June 1982 (1982-06-03) page 1, line 21 - page 1, line 44 page 2, line 32 - page 2, line 73; figure 1	1,14,23
A	US 4 578 945 A (PECK ET AL) 1 April 1986 (1986-04-01) cited in the application column 3, line 52 - column 4, line 24; figure 2	1
A	EP 1 327 751 A (PRATT & WHITNEY CANADA CORP) 16 July 2003 (2003-07-16) column 7, line 21 - column 8, line 2; figure 3	10,22

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-11,13-23

Based on operating range either minimum fuel flow or
shutting off fuel flow when an overspeed condition is
detected

2. claim: 12

Overspeed detection with two control logic paths

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Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4045955	A	06-09-1977	CH 608860 A5 31-01-1979
			DE 2635993 A1 10-03-1977
			GB 1552990 A 19-09-1979
			SE 393160 B 02-05-1977
			SE 7509603 A 01-03-1977
DE 1751821	A1	19-05-1971	NONE
US 4454754	A	19-06-1984	NONE
GB 2087978	A	03-06-1982	NONE
US 4578945	A	01-04-1986	NONE
EP 1327751	A	16-07-2003	NONE

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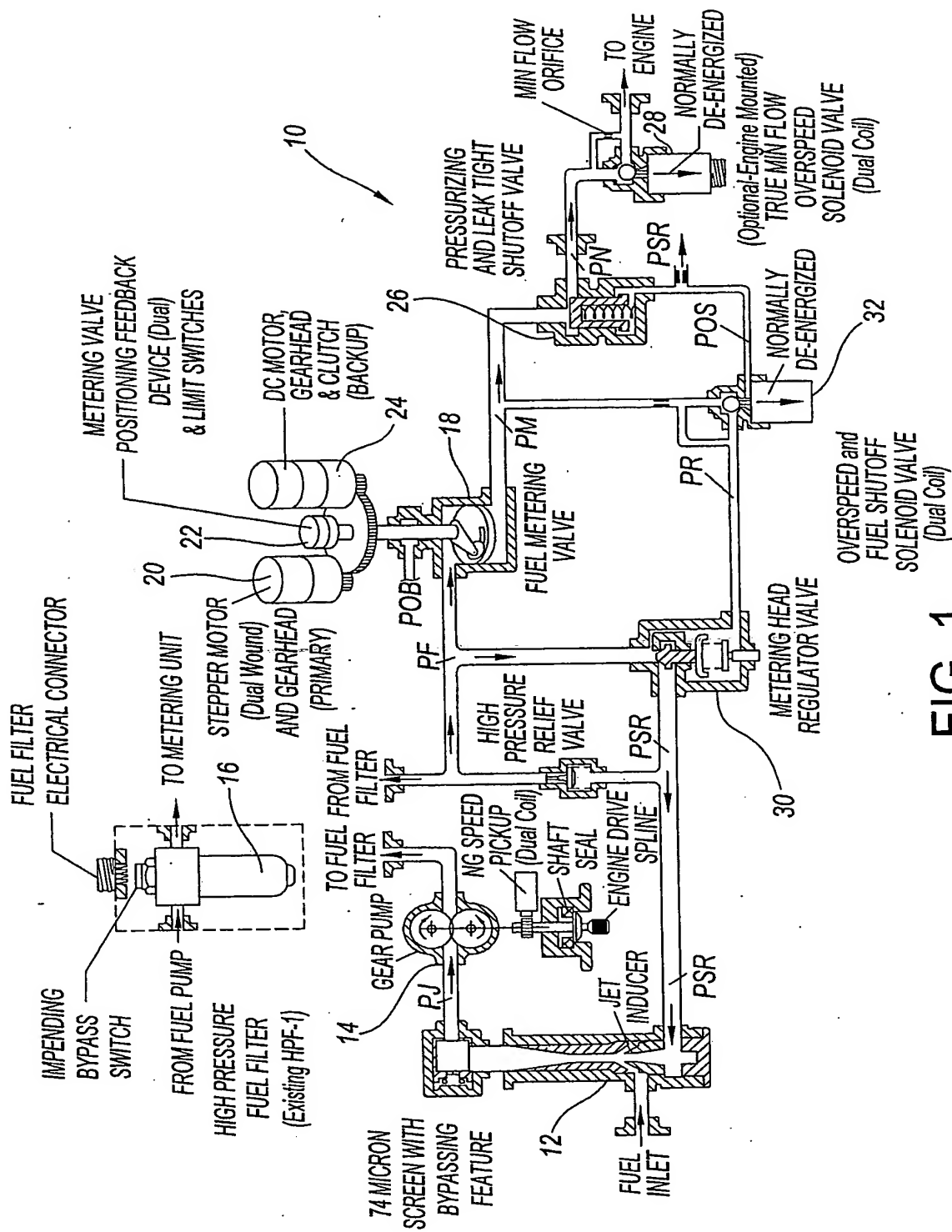


FIG. 1

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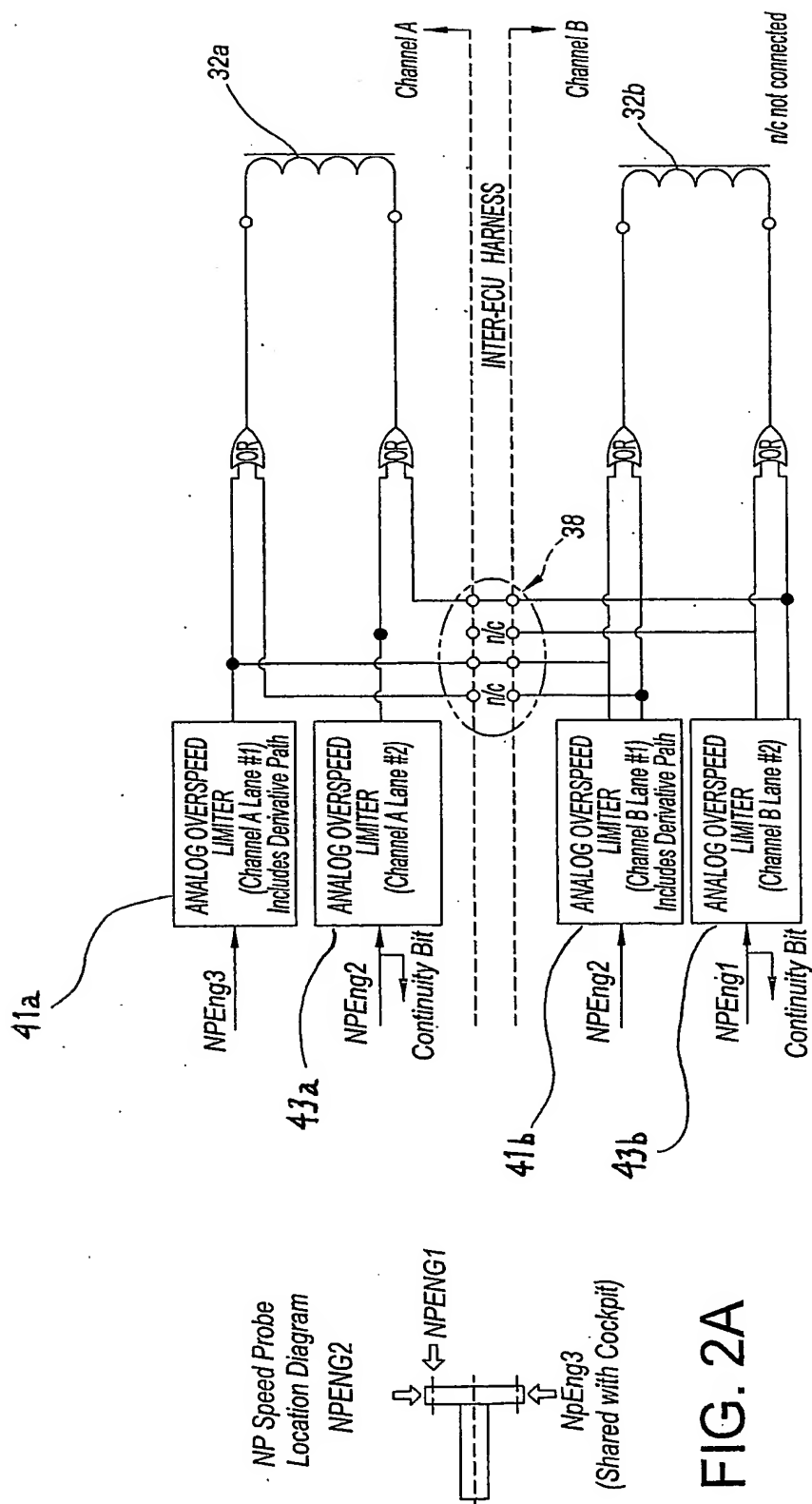


FIG. 2

FIG. 2A

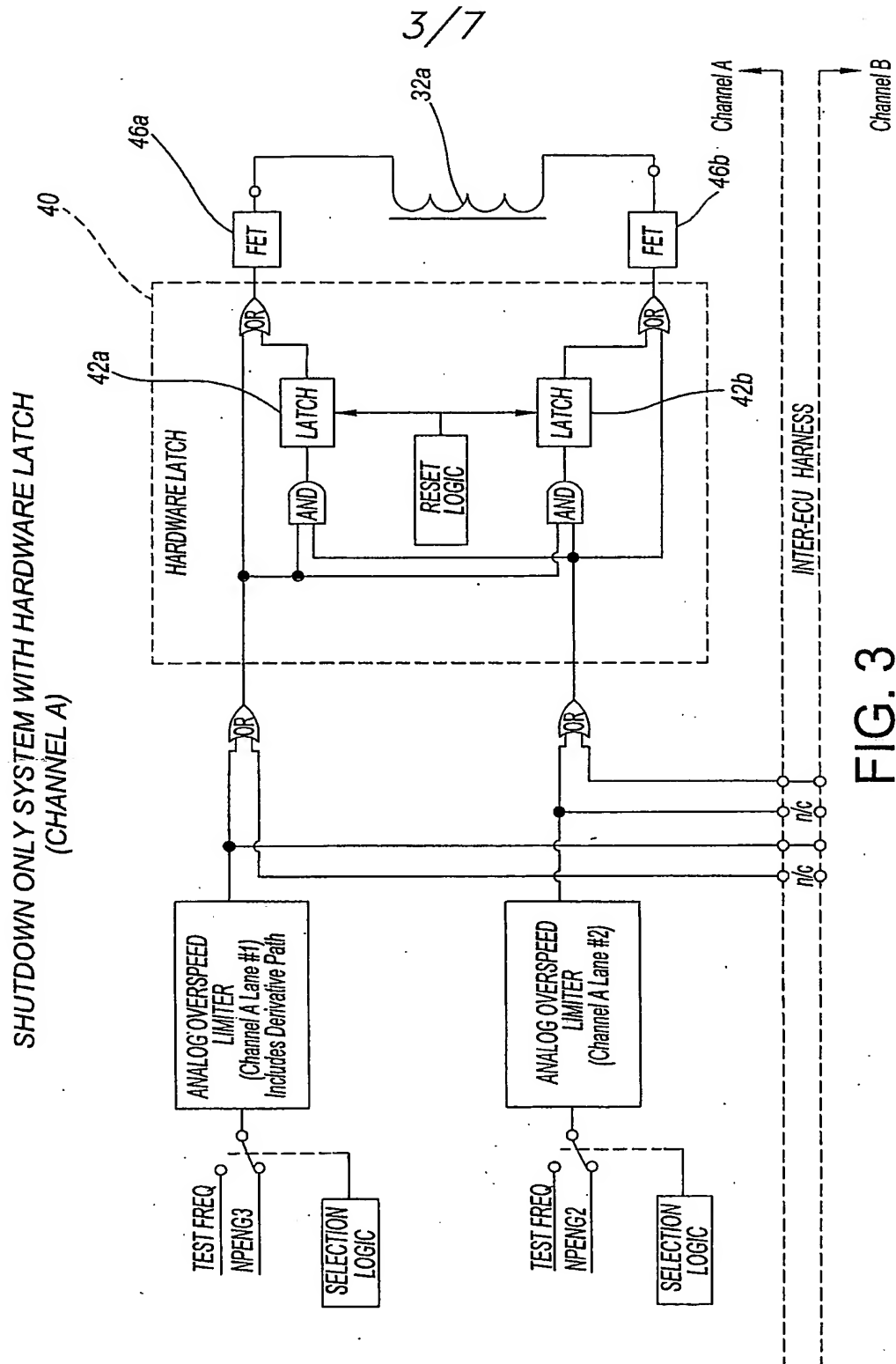


FIG. 3

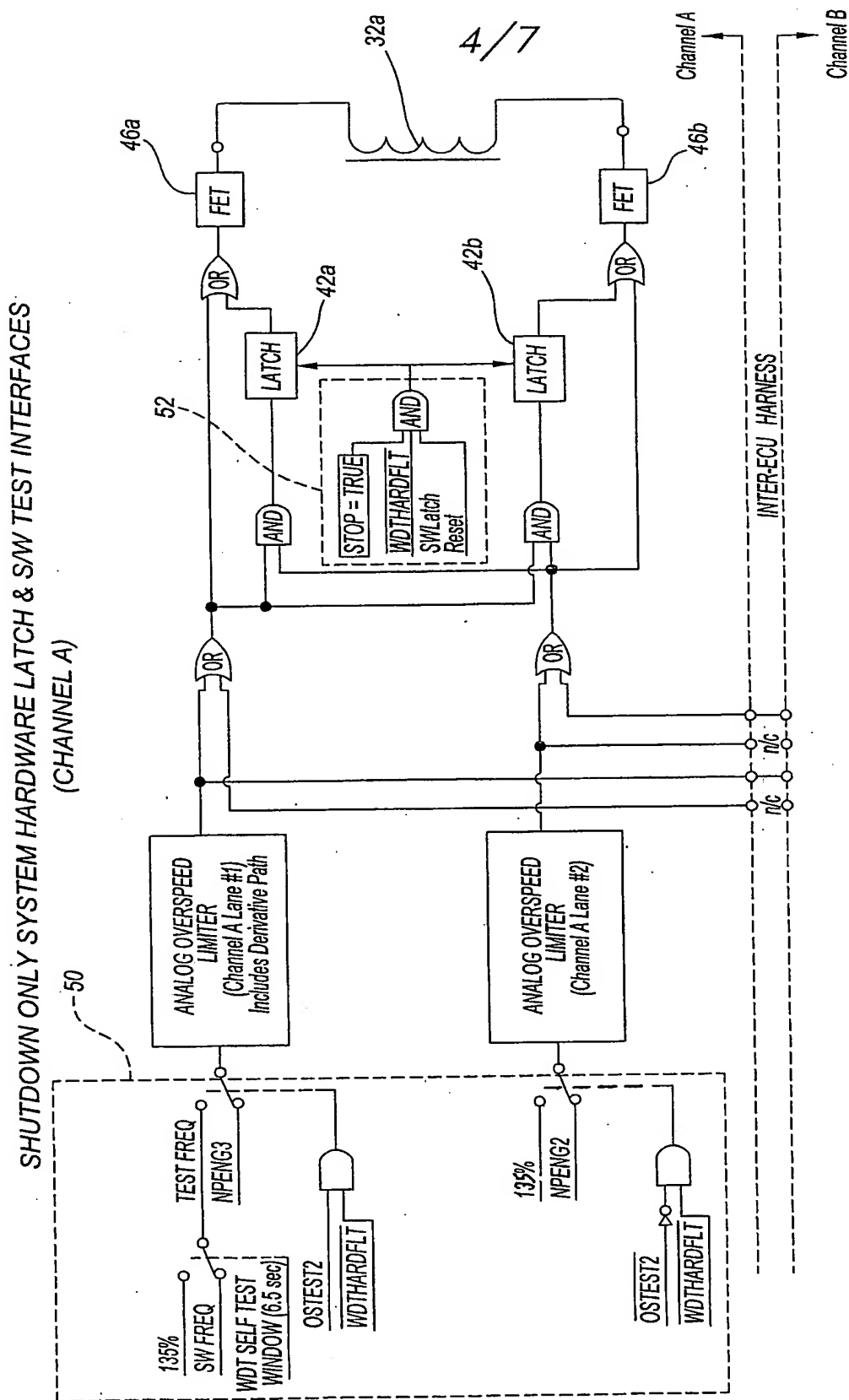


FIG. 4

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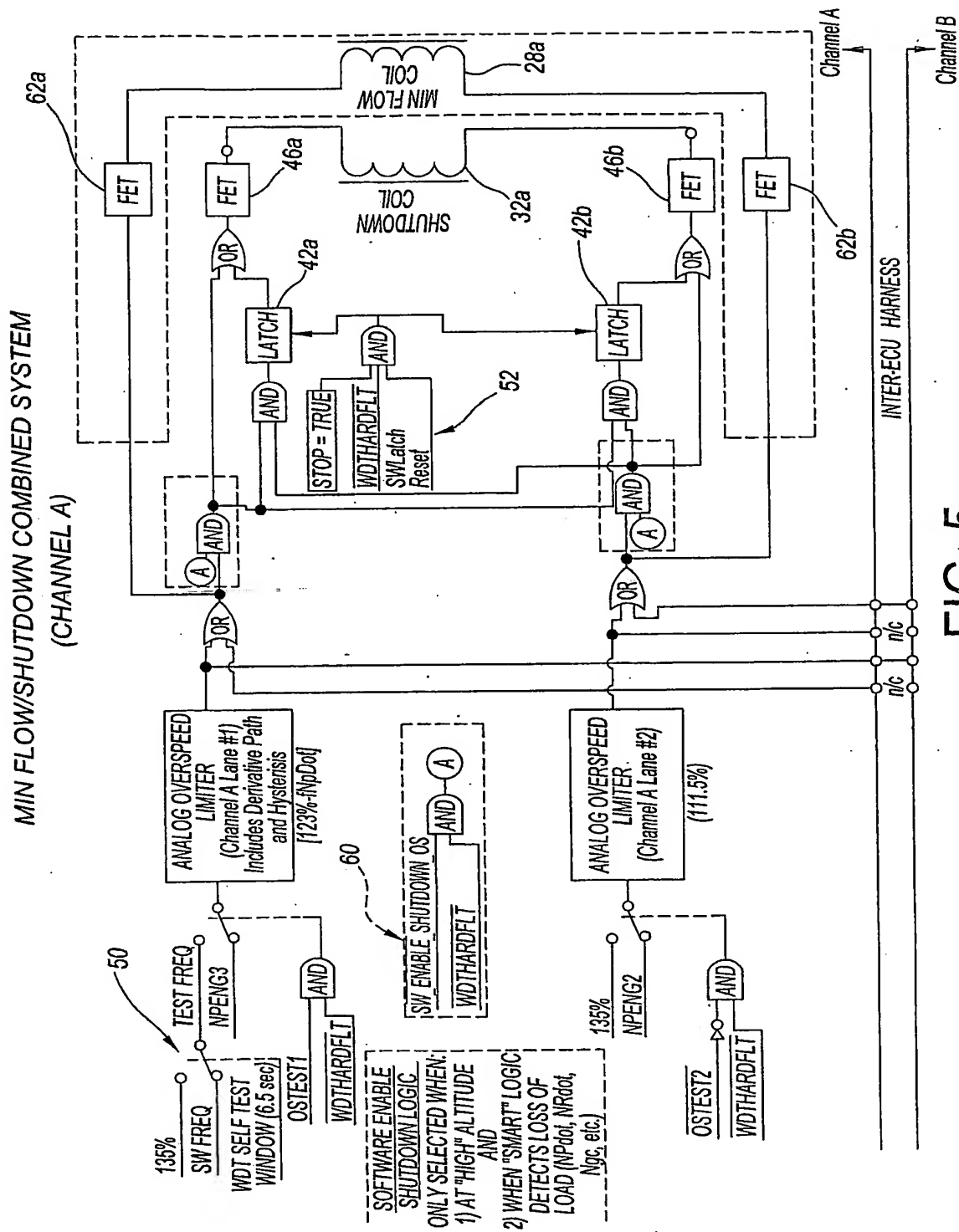


FIG. 5

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MIN FLOW/SHUTDOWN COMBINED SYSTEM WITH CROSS-ENGINE INHIBIT

(CHANNEL A)

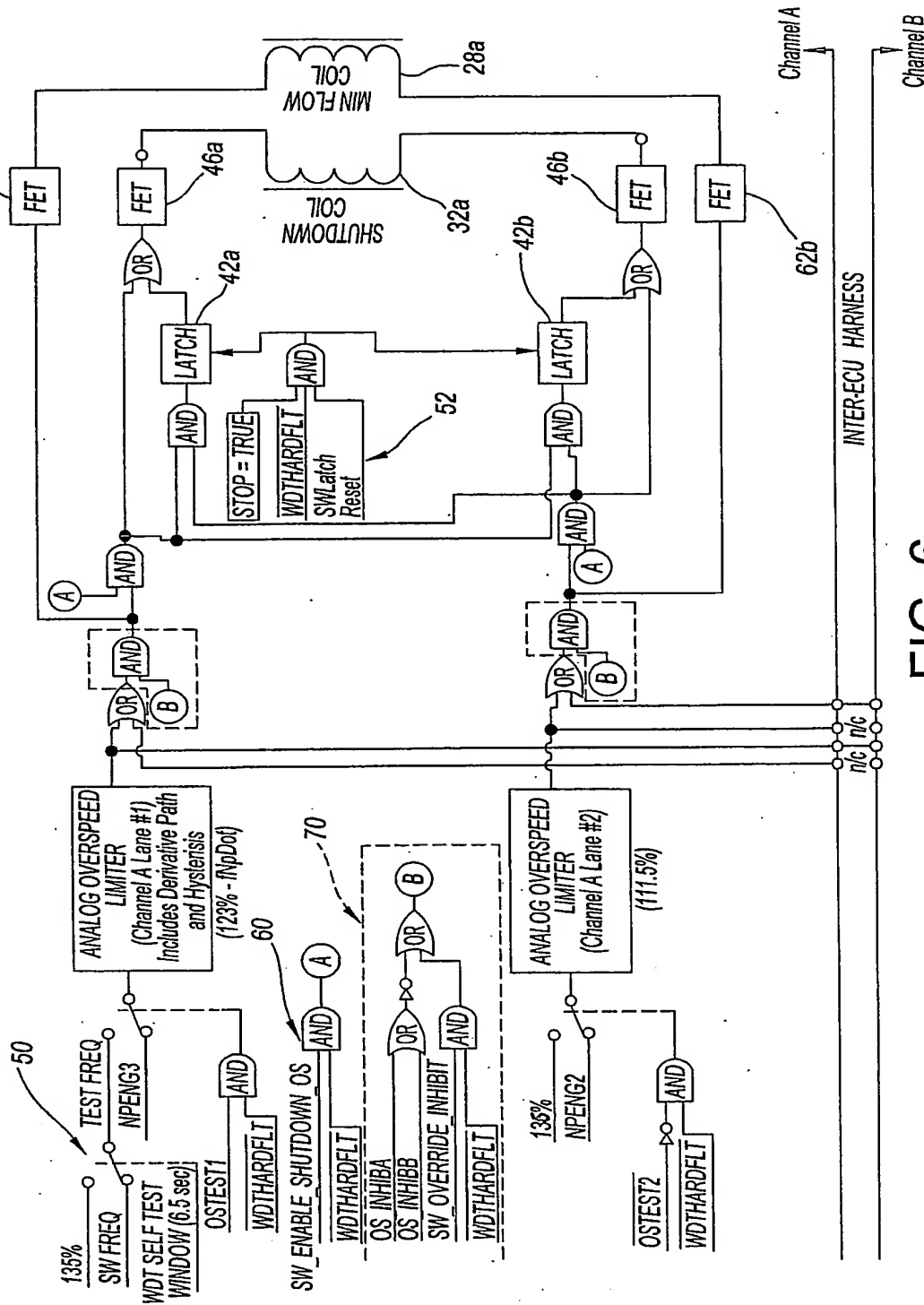
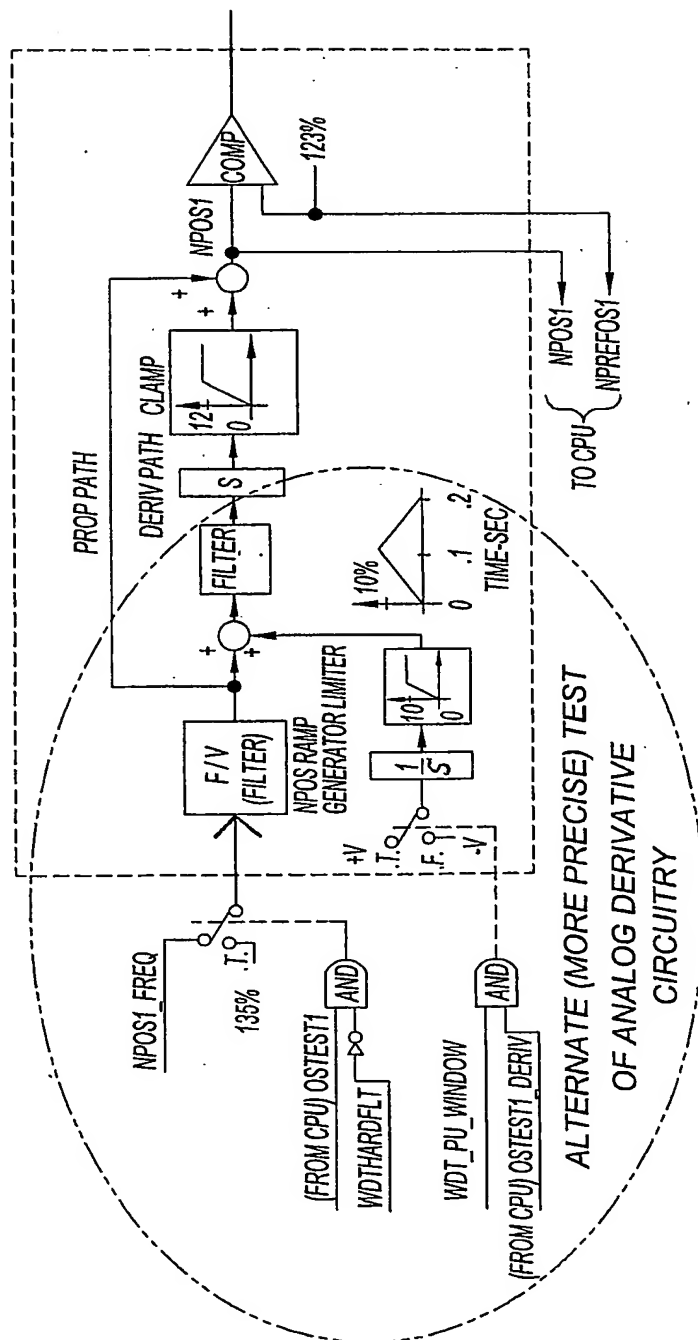


FIG. 6

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ANALOG OVERSPEED LIMITER (LANE #1)



ANALOG OVERSPEED LIMITER (LANE #2)

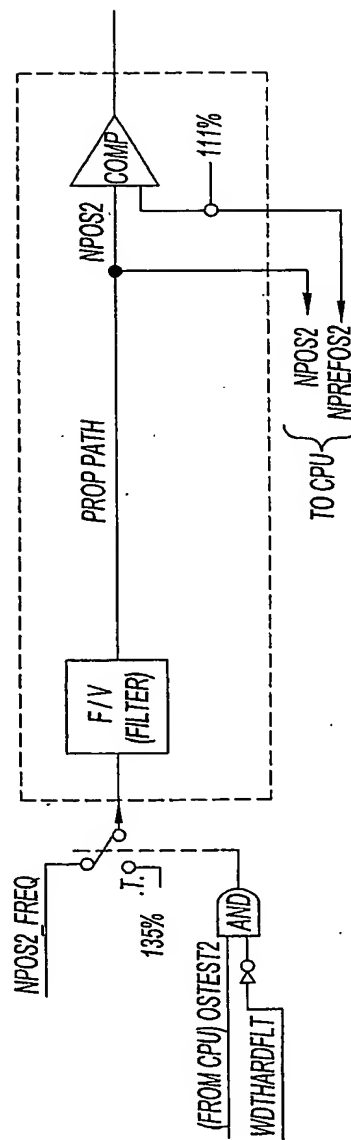


FIG. 7